

In the claims:

Following is a complete set of claims as amended with this Response.

1. (Previously Presented) A method comprising:  
receiving at a receiving station a downlink broadcast burst from a base station;  
determining timing for transmitting an uplink burst;  
selecting a training sequence at the receiving station for the uplink burst from  
among a plurality of training sequences; and  
transmitting the uplink burst from the receiving station using the selected training  
sequence.
2. (Original) The method of Claim 1 wherein selecting the training sequence  
comprises randomly selecting from among a set of predetermined training sequences.
3. (Original) The method of Claim 2 wherein randomly selecting comprises  
generating a random number and applying the random number to select from among the  
set of predetermined training sequences.
4. (Previously Presented) The method of Claim 1 wherein selecting the  
training sequence comprises determining a digit from an identification number of the  
receiving station and applying the determined digit to select from among a set of  
predetermined training sequences.
5. (Original) The method of Claim 1 wherein receiving a downlink broadcast  
burst comprises receiving an indication of a set of predetermined training sequences for  
use in selecting a training sequence.

6. (Original) The method of Claim 1 wherein determining timing comprises determining timing of a broadcast channel on which the broadcast burst was received.
7. (Original) The method of Claim 1 wherein determining timing comprises determining nominal timing relative to a frame of the broadcast burst.
8. (Original) The method of Claim 1 wherein determining timing comprises determining timing on a broadcast channel on which the broadcast burst was received.
9. (Currently Amended) The training sequence of Claim 1 wherein the ~~training sequence repetition of the core sequence~~ comprises a repetition of ~~a~~ the core sequence successively a specified number of times.
10. (Currently Amended) The training sequence of Claim 9 + wherein the core sequence consists essentially of 12 symbols.
11. (Currently Amended) The training sequence of Claim 9 + wherein the core sequence has a normalized cross-correlation of about 1/3.
12. (Currently Amended) The training sequence of Claim 9 + wherein the core sequence has a normalized autocorrelation of about 1/3.
13. (Currently Amended) The training sequence of Claim 9 + wherein the absolute value of the mean of the core sequence is about zero.
14. (Previously Presented) A machine-readable medium having stored thereon data representing sequences of instructions which, when executed by a machine, cause the machine to perform operations comprising:
  - receiving at a receiving station a downlink broadcast burst from a base station;
  - determining timing for transmitting an uplink burst;
  - selecting a training sequence at the receiving station for the uplink burst from

among a plurality of training sequences; and

transmitting the uplink burst from the receiving station using the selected training sequence.

15. (Original) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising selecting the training sequence further comprise instructions for randomly selecting from among a set of predetermined training sequences.

16. (Original) The medium of Claim 15 wherein the instructions causing the machine to perform operations comprising randomly selecting further comprise instructions for generating a random number and applying the random number to select from among the set of predetermined training sequences.

17. (Previously Presented) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising selecting the training sequence further comprise instructions for determining a digit from an identification number of the receiving station and applying the determined digit to select from among a set of predetermined training sequences.

18. (Original) The medium of Claim 14 wherein the instructions causing the machine to perform operations comprising receiving a downlink broadcast burst further comprise instructions for receiving an indication of a set of predetermined training sequences for use in selecting a training sequence.

19. (Previously Presented) An apparatus comprising:

a receiver to receive a downlink broadcast burst from a base station;

a processor to determine timing for sending an uplink burst, and to select a

training sequence from among a plurality of training sequences for the uplink burst; and  
a transmitter to transmit the uplink burst using the selected training sequence.

20. (Original) The apparatus of Claim 19 wherein the processor further selects the training sequence by randomly selecting from among a set of predetermined training sequences.

21. (Original) The apparatus of Claim 20 wherein the processor randomly selects by generating a random number and applying the random number to select from among the set of predetermined training sequences.

22. (Original) The apparatus of Claim 19 further comprising a register containing an identification number of the apparatus and wherein the processor selects by determining a digit from the register and applying the determined digit to select from among a set of predetermined training sequences.

23. (Original) The apparatus of Claim 19 wherein the receiver receives a downlink broadcast burst including an indication of a set of predetermined training sequences for use in selecting a training sequence.

24. (Currently Amended) The method of Claim 19 + wherein determining timing comprises determining timing of a broadcast channel on which the broadcast burst was received.